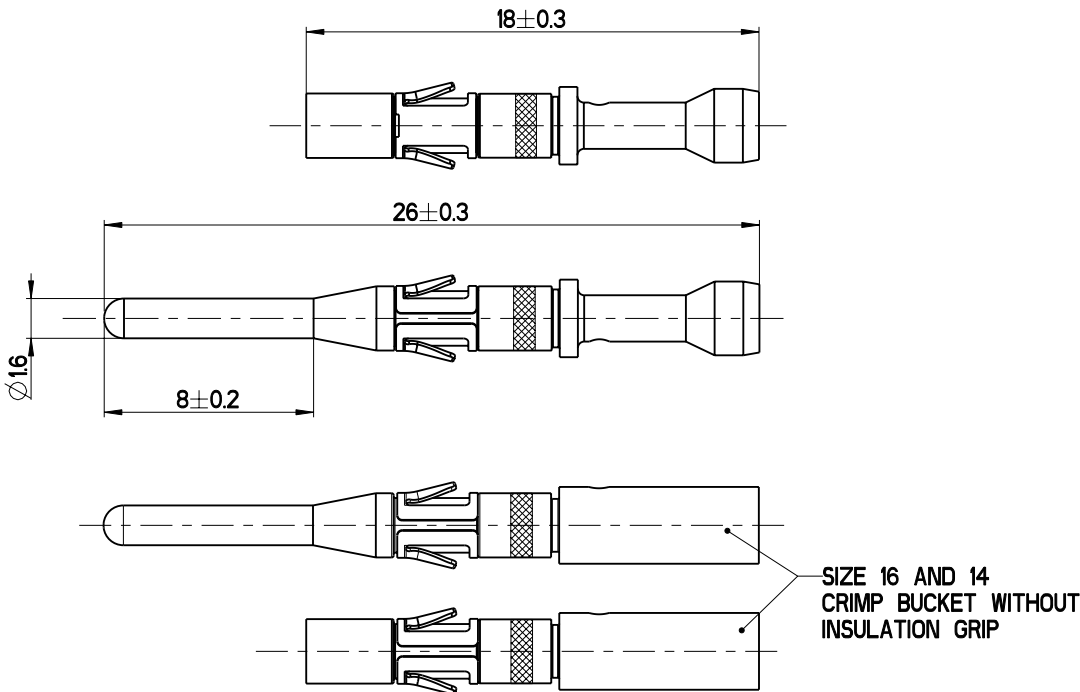


| AUSGABE | ÄND.-NR. | ÄNDERUNGS-BESCHREIBUNG                                                             | DATUM      | NAME |
|---------|----------|------------------------------------------------------------------------------------|------------|------|
| C       | 4173W    | neu gezeichnet in Pro/E                                                            | 08.02.2013 | SM   |
| D       | 4462W    | Farbcode Weiss bei T3P14FCIL hinzugefügt, Order Code 121587-0037 entfernt.         | 26.03.2013 | SM   |
| E       | 4492W    | Information Colour Code hinzu, zwei Artikeln entfernt                              | 16.05.2013 | SM   |
| F       | 4650W    | Toleranz an Wire-Wrap- und Solder-Anschlüsse, Tri-Lobe-f. 192991-0524 Y zugeordnet | 10.01.2014 | SM   |
| G       | 4827W    | Bemerkung berichtigt                                                               | 01.10.2014 | JH   |

CRIMP CONTACTS SIZE 20 - 26



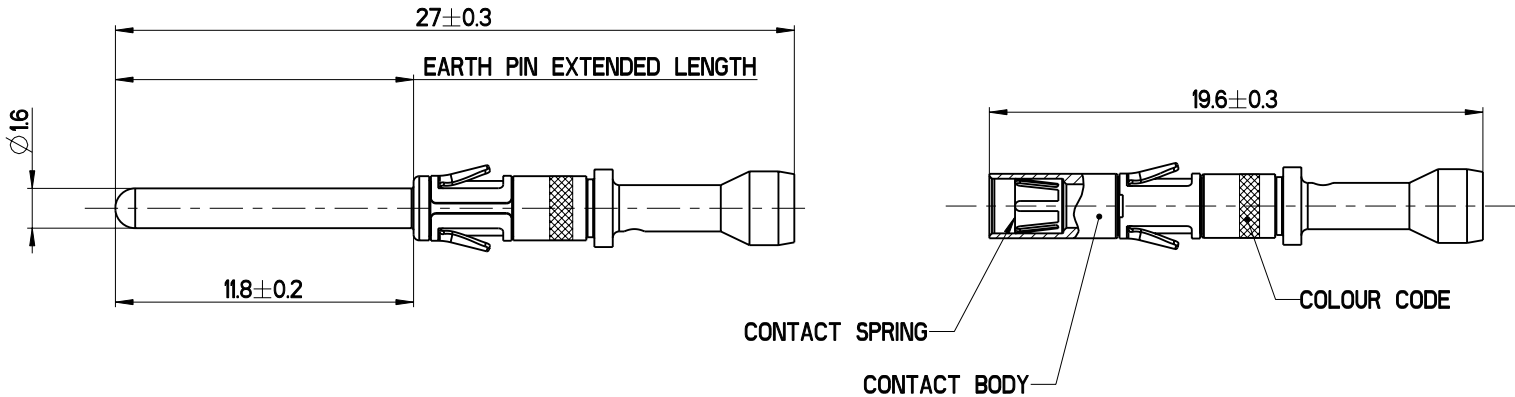
|                       | ORDER CODE Y  |              | ORDER CODE T |          | ORDER CODE X  |           | ORDER CODE Z |            |
|-----------------------|---------------|--------------|--------------|----------|---------------|-----------|--------------|------------|
|                       | BODY          | SPRING       | BODY         | SPRING   | BODY          | SPRING    | BODY         | SPRING     |
| PIN CONTACT FINISH    | 0.4 µm GOLD   | -            | 3 µm TIN     | -        | 3 µm GOLD     | -         | GOLD FLASH   | -          |
| SOCKET CONTACT FINISH | 0.125 µm GOLD | 0.75 µm GOLD | 3 µm TIN     | 2 µm TIN | 0.125 µm GOLD | 3 µm GOLD | GOLD FLASH   | GOLD FLASH |

| TESTS AND NUMBER OF MECHANICAL WEAR CYCLES DEPENDING ON CONTACT FINISH |           |          |                       |     |    |    |
|------------------------------------------------------------------------|-----------|----------|-----------------------|-----|----|----|
| PIN CONTACT FINISH                                                     | DAMP HEAT | DRY HEAT | SOCKET CONTACT FINISH |     |    |    |
|                                                                        |           |          | X                     | Y   | Z  | T  |
| T                                                                      | x         |          | -                     | -   | -  | 50 |
| Z                                                                      | x         |          | -                     | -   | 50 | -  |
| Y                                                                      | x         | x        | -                     | 200 | -  | -  |
| X                                                                      | x         | x        | 500                   | -   | -  | -  |

|                                                                                                       |  |                       |  |                                      |  |
|-------------------------------------------------------------------------------------------------------|--|-----------------------|--|--------------------------------------|--|
| WERKSTOFF: -                                                                                          |  | BEHANDLUNG: -         |  | OBERFLÄCHE: -                        |  |
| FREI MASSE SIEHE TABELLE                                                                              |  | WINKELTOLERANZ ± 0,5° |  | FUNKTIONSMASS                        |  |
| MASSE IN MM                                                                                           |  | RAUHIGKEIT            |  | SPC-MASSE                            |  |
| KANTEN UND ECKEN GEBROCHEN                                                                            |  | DATUM                 |  | DATENNAME                            |  |
| BEARBEITET                                                                                            |  | DATUM                 |  | REFERENZ                             |  |
| GEPRÜFT                                                                                               |  | DATUM                 |  | TEILENUMMER                          |  |
| FREIGABE                                                                                              |  | DATUM                 |  | BENENNUNG                            |  |
| ITC                                                                                                   |  | MASSSTAB              |  | THREE PART MACHINED TRIDENT CONTACTS |  |
| ITC Cannon GmbH<br>D-71384 Weinstadt<br>Germany                                                       |  | FORMAT                |  | ZEICHNUNGS-NUMMER                    |  |
| © ALLE RECHTE VORBEHALTEN, AUCH FÜR DEN FALL DER PATENTIERUNG. JEDE MITTEILUNG AN DRITTE IST STRAFBAR |  | SEITE                 |  | ÄNDERUNGSSTAND                       |  |
| A2                                                                                                    |  | 1 / 3                 |  | 11332-99                             |  |
|                                                                                                       |  |                       |  | G                                    |  |

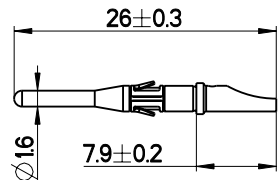
| THREE PART CRIMP CONTACTS WITH COLOUR CODING BANDS |                     |                 |                          |                 |              | FOR ALL CRIMP CONTACT TYPES<br>INSULATION STRIP LENGTH 5,08±0,25mm<br>EXCEPT 16 AWG AND 14 AWG 7,11±0,25mm |                               |                               |                               |             |
|----------------------------------------------------|---------------------|-----------------|--------------------------|-----------------|--------------|------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------|
| WIRE SIZE                                          | INSULATION DIAMETER | COLOUR CODE     | COLOUR CODE ACCORDING TO | CONTACT TYPE    | NOMENCLATURE | ORDER CODE Y<br>PACK SIZE 100                                                                              | ORDER CODE T<br>PACK SIZE 100 | ORDER CODE X<br>PACK SIZE 100 | ORDER CODE Z<br>PACK SIZE 100 |             |
| AWG                                                | mm <sup>2</sup>     |                 |                          |                 |              |                                                                                                            |                               |                               |                               |             |
| 26                                                 | 0,08<br>0,23        | 0,90<br>1,40    | BLACK                    | UK CODE         | PIN          | T3P26MCIL(.)                                                                                               | 192991-0100                   | 192991-0102                   | 192991-0101                   | 192991-0099 |
|                                                    |                     |                 |                          |                 | SOCKET       | T3P26FCIL(.)                                                                                               | 192991-0042                   | 192991-0048                   | 192991-0054                   | 192991-0036 |
| 24                                                 | 0,20<br>0,24        | 1,05<br>1,60    | BLUE                     | UK CODE         | PIN          | T3P24MCIL(.)                                                                                               | 192991-0092                   | 192991-0094                   | 192991-0093                   | 192991-0091 |
|                                                    |                     |                 |                          |                 | SOCKET       | T3P24FCIL(.)                                                                                               | 192991-0043                   | 192991-0049                   | 192991-0055                   | 192991-0037 |
|                                                    |                     |                 | RED                      | EUROPEAN CODE 1 | PIN          | T3P24MC3L(.)                                                                                               | 192991-0152                   | -                             | -                             | 192991-0151 |
|                                                    |                     |                 |                          |                 | SOCKET       | T3P24FC3L(.)                                                                                               | 192991-0075                   | -                             | -                             | 192991-0071 |
| 22                                                 | 0,25<br>0,50        | 1,60<br>2,15    | RED                      | UK CODE         | PIN          | T3P22MCIL(.)                                                                                               | 192991-0096                   | 192991-0098                   | 192991-0097                   | 192991-0095 |
|                                                    |                     |                 |                          |                 | SOCKET       | T3P22FCIL(.)                                                                                               | 192991-0044                   | 192991-0050                   | 192991-0056                   | 192991-0038 |
| 20                                                 | 0,44<br>0,64        | 1,60<br>2,10    | GREEN                    | UK CODE         | PIN          | T3P20MCIL(.)                                                                                               | 192991-0088                   | 192991-0090                   | 192991-0089                   | 192991-0087 |
|                                                    |                     |                 |                          |                 | SOCKET       | T3P20FCIL(.)                                                                                               | 192991-0046                   | 192991-0052                   | 192991-0058                   | 192991-0040 |
|                                                    |                     |                 | BLUE                     | EUROPEAN CODE 1 | PIN          | T3P20MC3L(.)                                                                                               | 192991-0136                   | -                             | -                             | 192991-0135 |
|                                                    |                     |                 |                          |                 | SOCKET       | T3P20FC3L(.)                                                                                               | 192991-0076                   | -                             | -                             | 192991-0072 |
| 16                                                 | 0,60<br>1,51        | NO INSUL. GRIP. | BLACK                    | UK CODE         | PIN          | T3P16MCIL(.)                                                                                               | 192991-0084                   | 192991-0086                   | 192991-0085                   | 192991-0083 |
|                                                    |                     |                 |                          |                 | SOCKET       | T3P16FCIL(.)                                                                                               | 192991-0047                   | 192991-0053                   | 192991-0059                   | 192991-0041 |
|                                                    |                     |                 | GREEN                    | EUROPEAN CODE 1 | PIN          | T3P16MC3L(.)                                                                                               | 192991-0132                   | 192991-0134                   | -                             | 192991-0131 |
|                                                    |                     |                 |                          |                 | SOCKET       | T3P16FC3L(.)                                                                                               | 192991-0077                   | 192991-0158                   | -                             | 192991-0073 |
| 14                                                 | 1,5<br>2,5          | NO INSUL. GRIP. | WHITE                    | -               | PIN          | T3P14MCIL(.)                                                                                               | 121587-0029                   | 121587-0027                   | 121587-0028                   | -           |
|                                                    |                     |                 |                          |                 | SOCKET       | T3P14FCIL(.)                                                                                               | 121587-0047                   | 12587-0038                    | 121587-0039                   | -           |

NOTE: 1 CONTACTS WITH EUROPEAN COLOUR CODE MUST NOT TO BE USED IN NEW DESIGNS

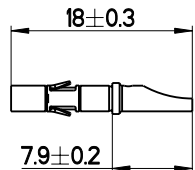


| THREE PART EXTENDED LENGTH COLOUR BANDED EARTH CONTACTS<br>FOR CIRCUIT PROTECTION ON "FIRST MATE-LAST BREAK" CONNECTORS |                     |                 |              |              |                               |                               |                               |                               |             |
|-------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|--------------|--------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------|
| WIRE SIZE                                                                                                               | INSULATION DIAMETER | COLOUR CODE     | CONTACT TYPE | NOMENCLATURE | ORDER CODE Y<br>PACK SIZE 100 | ORDER CODE T<br>PACK SIZE 100 | ORDER CODE X<br>PACK SIZE 100 | ORDER CODE Z<br>PACK SIZE 100 |             |
| AWG                                                                                                                     | mm <sup>2</sup>     |                 |              |              |                               |                               |                               |                               |             |
| 20                                                                                                                      | 0,44<br>0,64        | 1,60<br>2,10    | GREEN        | PIN          | T3P20MEIL(.)                  | 192991-0164                   | -                             | -                             | 192991-0163 |
|                                                                                                                         |                     |                 |              | SOCKET       | T3P20FEIL(.)                  | 192991-0207                   | -                             | -                             | 192991-0078 |
| 16                                                                                                                      | 0,60<br>1,51        | NO INSUL. GRIP. | BLACK        | PIN          | T3P16MEIL(.)                  | 192991-0160                   | -                             | -                             | 192991-0159 |
|                                                                                                                         |                     |                 |              | SOCKET       | T3P16FEIL(.)                  | 192991-0208                   | -                             | -                             | 192991-0079 |

| A                                            |                        | B               |              | C                             |                               | D                             |                               |
|----------------------------------------------|------------------------|-----------------|--------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| THREE PART CONTACTS - SOLDER CUP TERMINATION |                        |                 |              |                               |                               |                               |                               |
| WIRE SIZE<br>AWG                             | INSULATION<br>DIAMETER | CONTACT<br>TYPE | NOMENCLATURE | ORDER CODE Y<br>PACK SIZE 100 | ORDER CODE T<br>PACK SIZE 100 | ORDER CODE X<br>PACK SIZE 100 | ORDER CODE Z<br>PACK SIZE 100 |
| 16                                           | NO INSUL.<br>GRIP      | PIN             | T3P16MS1L(.) | 192900-0633                   | 192900-0632                   | -                             | -                             |
|                                              |                        | SOCKET          | T3P16FS1L(.) | 192900-0635                   | 192900-0634                   | -                             | -                             |

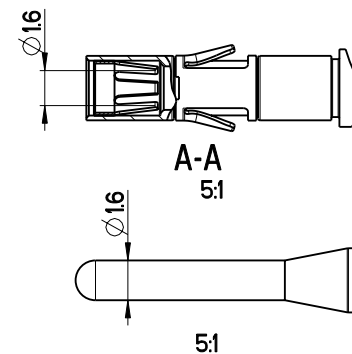
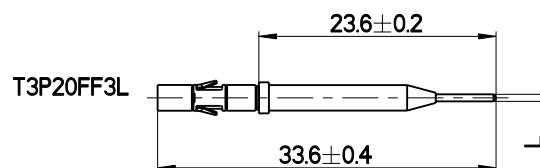
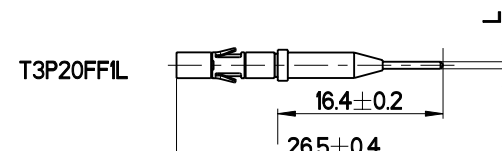
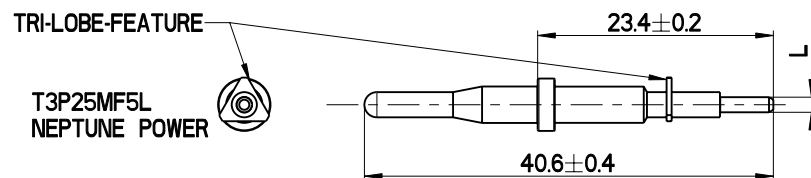
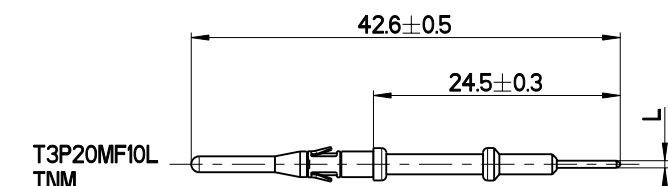
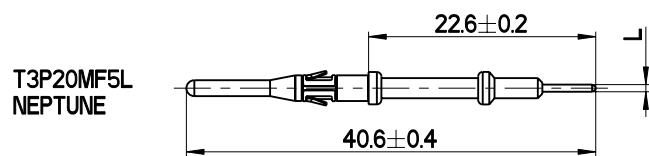
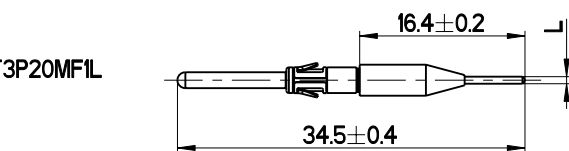
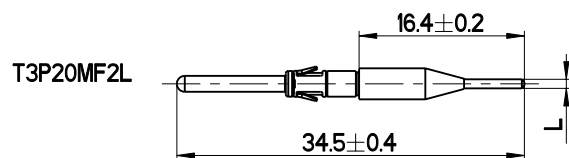


T3P16MS1L

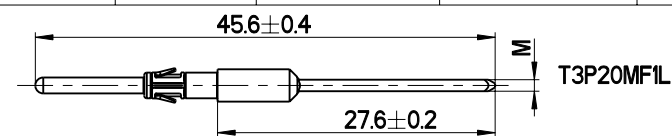


T3P16FS1L

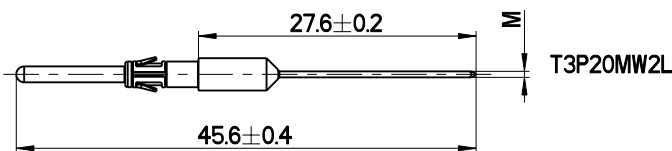
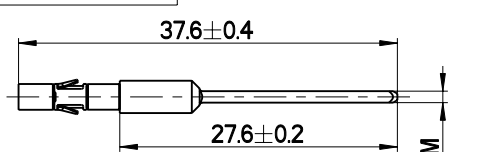
| THREE PART CONTACTS - FLOW SOLDER TERMINATION |                 |               |                               |                               |                               |                               |
|-----------------------------------------------|-----------------|---------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| PILLER SIZE L<br>mm<br>±0.06                  | CONTACT<br>TYPE | NOMENCLATURE  | ORDER CODE Y<br>PACK SIZE 100 | ORDER CODE T<br>PACK SIZE 100 | ORDER CODE X<br>PACK SIZE 100 | ORDER CODE Z<br>PACK SIZE 100 |
| Ø 0.72                                        | PIN             | T3P20MF1L(.)  | 192991-0120                   | 192991-0122                   | -                             | 192991-0119                   |
| Ø 0.91                                        | PIN             | T3P20MF2L(.)  | -                             | -                             | -                             | 192991-0195                   |
| Ø 0.73                                        | PIN             | T3P20MF5L(.)  | 192900-0356                   | 192900-0465                   | -                             | -                             |
| Ø 1.52                                        | PIN             | T3P20MF10L(.) | 192991-0618                   | 192991-0617                   | -                             | -                             |
| Ø 0.73                                        | PIN             | T3P20MF10L(.) | 192900-0657                   | 192900-0658                   | -                             | -                             |
| Ø 0.72                                        | SOCKET          | T3P20FF1L(.)  | -                             | -                             | -                             | 192991-0066                   |
| Ø 0.97                                        | SOCKET          | T3P20FF2L(.)  | -                             | -                             | -                             | 192991-0067                   |
| Ø 0.72                                        | SOCKET          | T3P20FF3L(.)  | 192991-0524                   | -                             | -                             | -                             |



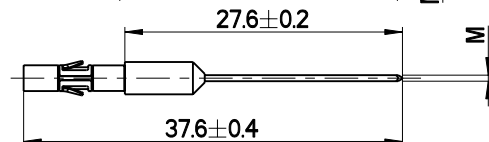
| THREE PART CONTACTS - WIRE WRAP TERMINATION |                 |              |                               |                               |                               |                               |
|---------------------------------------------|-----------------|--------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| WRAP SIZE M<br>mm<br>±0.06                  | CONTACT<br>TYPE | NOMENCLATURE | ORDER CODE Y<br>PACK SIZE 100 | ORDER CODE T<br>PACK SIZE 100 | ORDER CODE X<br>PACK SIZE 100 | ORDER CODE Z<br>PACK SIZE 100 |
| □ 1.15                                      | SOCKET          | T3P20FW1L(.) | -                             | -                             | 192991-0183                   | 192991-0060                   |
| □ 1.15                                      | PIN             | T3P20MW1L(.) | -                             | -                             | 192991-0105                   | 192991-0103                   |
| □ 0.62                                      | SOCKET          | T3P20FW2L(.) | -                             | -                             | 192991-0184                   | 192991-0061                   |
| □ 0.62                                      | PIN             | T3P20MW2L(.) | -                             | -                             | 192991-0125                   | 192991-0123                   |



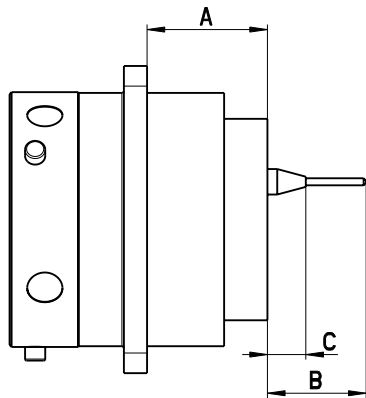
T3P20FW1L



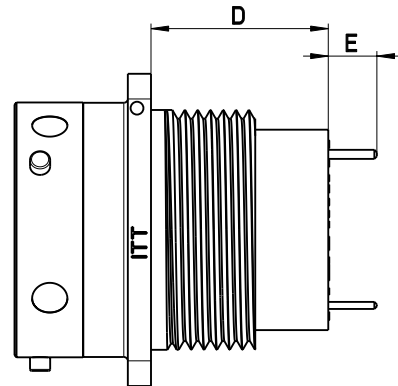
T3P20FW2L



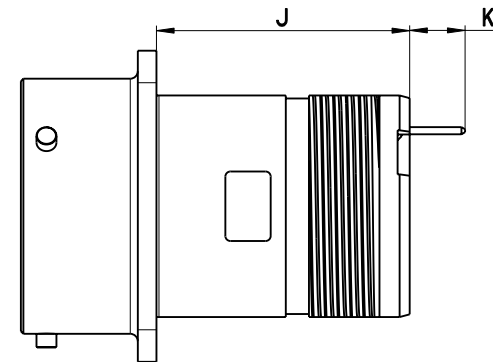
| WERKSTOFF: -                                                                                             |  | BEHANDLUNG: -    |  | OBERFLÄCHE: -                                  |  |
|----------------------------------------------------------------------------------------------------------|--|------------------|--|------------------------------------------------|--|
| FREI MASSE SIEHE TABELLE                                                                                 |  | MASSE IN MM      |  | WINKELTOLERANZ ± 0.5°                          |  |
| KANTEN UND ECKEN GEBROCHEN                                                                               |  | RAUHGKEIT Ra     |  | FUNKTIONSMASS                                  |  |
| BEARBEITET SM                                                                                            |  | DATUM 08.02.2013 |  | DATENAME 11332-99                              |  |
| GEPRÜFT GWE                                                                                              |  | DATUM 08.02.2013 |  | REFERENZ                                       |  |
| FREIGABE HAG                                                                                             |  | DATUM 19.02.13   |  | TEILENUMMER                                    |  |
| ITC ITT Cannon GmbH<br>D-71384 Weinstadt<br>Germany                                                      |  | MASSSTAB 2:1     |  | BENENNUNG THREE PART MACHINED TRIDENT CONTACTS |  |
| © ALLE RECHTE VORBEHALTEN, AUCH FÜR DEN FALL DER PATENTERTÜBLUNG. JEDE MITTEILUNG AN DRITTE IST STRAFBAR |  | FORMAT A2        |  | ZEICHNUNGS-NUMMER 11332-99                     |  |
|                                                                                                          |  | SEITE 2 / 3      |  | ÄNDERUNGSSTAND G                               |  |



2:1



2:1

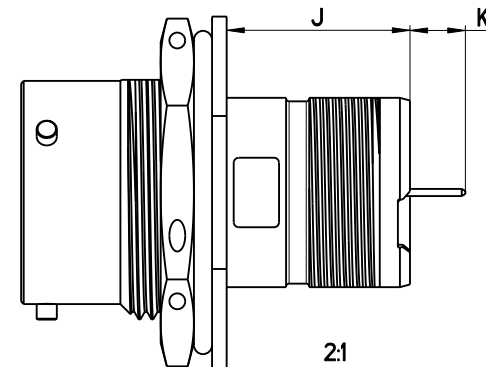


2:1

| NOMINAL LENGTHS OF FLOW SOLDER CONTACTS<br>OUT OF THE RINGLOCK STANDARD CONNECTOR |           |                    |           |             |
|-----------------------------------------------------------------------------------|-----------|--------------------|-----------|-------------|
| CONNECTOR SIZE                                                                    | A<br>±0.6 | 192991-0066/ -0067 |           | 192991-0524 |
|                                                                                   |           | B<br>±0.5          | B<br>±0.5 | C<br>±0.5   |
| 10                                                                                | 10.4      | 4.5                | 11.6      | 5.6         |
| 12                                                                                | 12.0      | 2.7                | 9.8       | 3.8         |
| 14                                                                                | 10.2      | 4.5                | 11.6      | 5.6         |
| 16                                                                                | 12.0      | 2.7                | 9.8       | 3.8         |
| 18                                                                                | 11.8      | 2.7                | 9.8       | 3.8         |
| 20                                                                                | 10.0      | 3.0                | 10.1      | 4.1         |
| 22                                                                                | 10.0      | 2.0                | 9.1       | 3.1         |
| 24                                                                                | 11.6      | 1.2                | 8.3       | 2.3         |

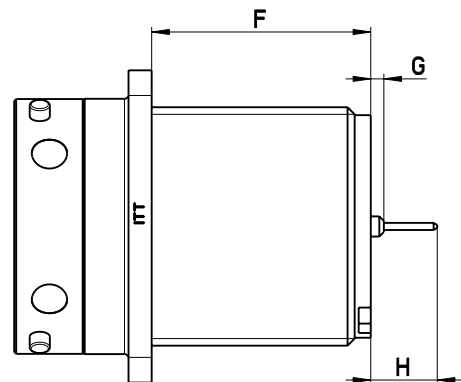
| NOMINAL LENGTHS OF FLOW SOLDER CONTACTS<br>OUT OF THE RINGLOCK REVERSED CONNECTOR |           |                                     |
|-----------------------------------------------------------------------------------|-----------|-------------------------------------|
| CONNECTOR SIZE                                                                    | D<br>±0.6 | 192991-0195/ -0119/<br>-0120/ -0122 |
|                                                                                   |           | E<br>±0.5                           |
| 10                                                                                | 17.5      | 4.7                                 |
| 12                                                                                | 17.5      | 4.7                                 |
| 14                                                                                | 17.5      | 4.7                                 |
| 16                                                                                | 17.5      | 4.7                                 |
| 18                                                                                | 17.3      | 4.7                                 |
| 20                                                                                | 15.85     | 4.6                                 |
| 22                                                                                | 14.85     | 4.6                                 |
| 24                                                                                | 14.05     | 4.6                                 |

| NOMINAL LENGTHS OF FLOW SOLDER CONTACTS<br>OUT OF THE TNM REVERSED RECEPTACLE CONNECTOR |           |                    |
|-----------------------------------------------------------------------------------------|-----------|--------------------|
| CONNECTOR SIZE                                                                          | J<br>±0.6 | 192900-0657/ -0658 |
|                                                                                         |           | K<br>±0.5          |
| 10                                                                                      | 25.1      | 5.5                |
| 12                                                                                      | 25.1      | 5.5                |
| 14                                                                                      | 25.1      | 5.5                |
| 16                                                                                      | 25.1      | 5.5                |



2:1

| NOMINAL LENGTHS OF FLOW SOLDER CONTACTS OUT OF THE<br>TNM REVERSED RECEPTACLE CONNECTOR WITH JAM NUT |           |                    |
|------------------------------------------------------------------------------------------------------|-----------|--------------------|
| CONNECTOR SIZE                                                                                       | J<br>±0.6 | 192900-0657/ -0658 |
|                                                                                                      |           | K<br>±0.5          |
| 14                                                                                                   | 18.2      | 5.5                |



2:1

| NOMINAL LENGTHS OF FLOW SOLDER CONTACTS OUT OF THE<br>NEPTUNE REVERSED RECEPTACLE CONNECTOR FOR FLANGE MOUNTING |           |                    |           |                    |           |
|-----------------------------------------------------------------------------------------------------------------|-----------|--------------------|-----------|--------------------|-----------|
| CONNECTOR SIZE                                                                                                  | F<br>±0.6 | 192900-0356/ -0465 |           | 192991-0617/ -0618 |           |
|                                                                                                                 |           | G<br>±0.5          | H<br>±0.5 | G<br>±0.5          | H<br>±0.5 |
| 14                                                                                                              | 20.9      | 1                  | 6.3       | -                  | -         |
| 16                                                                                                              | 21.8      | 1.3                | 6.6       | 0.2                | 5.5       |
| 24                                                                                                              | 18.7      | 0.3                | 6.0       | 0.7                | 6.0       |

| NOMINAL LENGTHS OF FLOW SOLDER CONTACTS OUT OF THE<br>NEPTUNE REVERSED RECEPTACLE CONNECTOR WITH JAM NUT |           |                    |           |                    |           |
|----------------------------------------------------------------------------------------------------------|-----------|--------------------|-----------|--------------------|-----------|
| CONNECTOR SIZE                                                                                           | F<br>±0.6 | 192900-0356/ -0465 |           | 192991-0617/ -0618 |           |
|                                                                                                          |           | G<br>±0.5          | H<br>±0.5 | G<br>±0.5          | H<br>±0.5 |
| 14                                                                                                       | 10.2      | 1                  | 6.3       | -                  | -         |
| 16                                                                                                       | 10.3      | 1.1                | 6.4       | -                  | 5.3       |
| 24                                                                                                       | 10.8      | 0.7                | 6.0       | 0.3                | 5.6       |

| AUSGABE | AEND.-NR. | AENDERUNGS-BESCHREIBUNG | DATUM | NAME |
|---------|-----------|-------------------------|-------|------|
|         |           | siehe Seite 1           |       |      |
|         |           |                         |       |      |
|         |           |                         |       |      |
|         |           |                         |       |      |

SEE DRAWING NO. 86000-99 FOR PCB-LAYOUTS OF RINGLOCK STANDARD RECEPTACLES  
SEE DRAWING NO. K121587-0000 FOR PCB-LAYOUTS OF TRIDENT NEPTUNE

|                                                                                                             |  |                       |  |                                         |  |
|-------------------------------------------------------------------------------------------------------------|--|-----------------------|--|-----------------------------------------|--|
| WERKSTOFF: -                                                                                                |  | BEHANDLUNG: -         |  | OBERFLAECHE: -                          |  |
| FREIMASSE SIEHE TABELLE                                                                                     |  | WINKELTOLERANZ ± 0.5° |  | FUNKTIONSMASS                           |  |
| MASSE IN MM                                                                                                 |  | RAUHIGKEIT Ra         |  | SPC-MASSE                               |  |
| KANTEN UND ECKEN GEBROCHEN                                                                                  |  | DATUM                 |  | DATENNAME                               |  |
| BEARBEITET                                                                                                  |  | DATUM                 |  | REFERENZ                                |  |
| GEPRUEFT                                                                                                    |  | DATUM                 |  | TEILENUMMER                             |  |
| FREIGABE                                                                                                    |  | DATUM                 |  | BENENNUNG                               |  |
| HAG                                                                                                         |  | 19.02.13              |  | THREE PART MACHINED<br>TRIDENT CONTACTS |  |
| FORMAT                                                                                                      |  | SEITE                 |  | ZEICHNUNGS-NUMMER                       |  |
| A2                                                                                                          |  | 3 / 3                 |  | 11332-99                                |  |
| ALLE RECHTE VORBEHALTEN, AUCH FUEER DEN FALL DER<br>PATENTERTUELLUNG. JEDE MITTELUNG AN DRITTE IST STRAFBAR |  | AENDERUNGSSTAND       |  | G                                       |  |